7267 Family Bentulax As much a series of the series in the state of th the fact that the property of the second of and the state of t the phase of the state of the net folder on the first of the firs Company of the second of the s The state of the s mouth which the second And the second of the second o The state of the s The the total and the second of the second o All the second of the second o / he are lived the work that distinctly in plant of the derivation,

first with 6 to 11 spines, smaller than roft fin anal like record dorsal. Candal moderate, sub. truncate or rounded. Vectoral rather large, most of rays. branched, and without ultacked rays. Eentral little in advance of pertonal, with there and 5 I he small family rosembling the Platy cephalidae, less defressed, and the ventrals inserted to little before the fectorals.

h day

Analysis of Genera a. Parabembrinae new subfamily. Lateral line high, runs along upper side of black; spinoust donsal larger than second dorsal, which (only with) 9 rays, anal like secondal dorsal. a? Bembrinae, Lateral line slopes from suprascapula, median or axial along side of tail; base of spictous dorsal always shorter than second dorsal base. anal long like second dorsal. b. Adal rays 11. c. Eye little greater than snout. scales 32 in lateral line. Brathybembras. 2.2 Eye less than snout, scales 2/8 vin lateral line. Benbradium.

b." Anal rays 14, eye less than d. 'Dorsal spines 6, scales 40 in lateral line. Bembradon. d. Dorsal spines 11; seales 75 or 76 in lateral line, tubes 49 or 50. Bembras.

Genus Tarabembras Bleekeer Parabembras Bleeker, Verslag. Kon. Akad. Wet. Amsterdam, ser. 2, vol. 8, p. 370, 1874. Type Bembras Curtus Schlegel, monotypic.

Bruffiehthys Day, Fisher of India, ft. 1.182, 1875. Type Veorpaena hovrida Linnaeus.

15 orly elingate, Henderly vute And Compressed. Head large, compressed, pointed. Nout depressed. Eg large, high, largely fremedian in head. howth moderate, lower faw well protruded, mayillary Vertends below eye. hostrile 20, well separated. Interorbited narrow. Cermature of head well developed, with sharp spines. Till rubers skender. Yeales rather large, etenoid, and on fins extend only on pertoral and candal Thases. Dorsals well reparated, first for with y spines and second with spine and 8 rays. Coval with 3 spiner and 5 rays. Candal rounded. Guloral møderate, rryx branched. E'entral inserted before pectoral, with spine and 5 rays.

Pleetrogenium Gilbert, fram Hawaii is very suggestive superficially to their genus, but bf courte differs in many ways, especially the snout shorter than the eye, the continuous dorsals deeply notified and 2 springs att. the front of the second dorsal.

Parabembras curtus (Schlegel) Benbras curtus Vallege, Laura Jahonica, Polisi, type locality, Sapan and Richardson, Schth. China and Japan, 1.217, 1846 (reference). Günther, Cat. Fish. Brit. musy vol. 2, p. 191, 1860 (copied).

Ment Frenchory anceis Day Pseudorynanceia Way, Fisher of India, pt. 1, p. 163, 1875 \ Jyhe Prendyrynanceis melanopligma. Day, monotyphi.

Parabembras curtus Bleeker, Ererslag. Kon. Alsad. Wet. Amsterdam, Jser. 2, vol. 8, p. 370, 1874 (reference); Verh. Kon, ahad. Wet. Ainsterdam, vol. 18 (ho.6). L.12, 1879 (reference). Jordan sand Snyder, Connot. 3 Ft. Japon., vol. 3, p. 105, 1901 () reference : fordan and Richardson, Oroc. U. V. hat. huns, vol. 33, p. 644, 1908 (copied). --Jordan, Tanaka, Ingder, vourn. Göllege Hei, Tologo, vol. 33, art. L. 2887, 1913 (reference). -Jordan and Hubbs, Frem. Carnegie hurt, vol. 10, ho. 2, p. 28/2 June 27, 1925 Araka market).

Wepth 5 4 to 5 7; head 23 to 2 5, width 2 to 2 8. Anout 3 3 to 3 7 in head from smout tip, eye 3 4 to 3 3, greater than Shout, and very narrow interorbital, maythlary reacher 5 to 4 in eye, expansion 3 = to 3 3 in eyb, length 2 3 to 2 5 in head from knout tip! teeth minutely villeform, in bands in jaws with upper little broader than lower; triangular band of fine villiforml teeth on vomer and band on each palatine, interorbital narrow, contave, width 4 7 to Hänneye. Gill rakers 6+12 lance oblate, of which 3 above and below whort rudementary tubercles; gill rakers 2 5 in eye, gill filaments 3- of gill rakers.

Front nortrils with pair of internatal spines; & pairl of supraorbital spines with last 3 closer and followed by pair of much more widely stot parietal spines (close t behind upper orbital edge), then closer pair of well developed occipitals. Large, strong preorbital spine, pointing backlivard below suborbital stay and front of eye; suborb.
ital stay with 5 strong spines, last smallest; strong Freoher. Cular spine, 3 mi egt, 2 rather elore set opercular spaner, lower slightly forward, '2 portocular spines, followed by 3-at suprascapula, Attrong, short humeral spine. Vealer 32 or 33 + 10 m lateral line; 4 above to spinous

dorsal origin, 5 above to soft dorsal orligin, 8 below; 6 or T predorsal forward to orciput; 4 rows on check below suborbital stay. Head realy behind leyer. I wall really on bases of pertorals and caudal, rather large on breast and belleg. Scaler with 11 to 14 barall radiating to parallel strial; 45 to 54 stender whort apical denteiler, with 2 to 4 transverse series of basal elements; circuli fine basally, coarser and lending abiliptly apically. JD. IX - I, 8, I, fourth spine 2 = to 23 vn total head length, first branched ray 2 = 53. M. III, 5, I, record appoint 3 7 5 4, second ran 27 55. Candal 13 to 2, slightly convey behind;

E. S. h. M., 20.

Collection. ho. D. 5596.

Bamboanga Right N. 31° W.,

O. I mile (N. lat. 6°54', E.

long. 122° 4'30"), mindanao.

D. 9 fathoms. Detober 10, 1909.

least depth of eardal fedural 4 4 to 5 %; pectoral 1 = to 17, rays I, 17, ventral rays I, 5, fin 25-to 25-in total

Eleval length. Pale brown, little lighter Fruit all pale, with dark spot on foft dorsal terminally. China, Japan!

a. Howerby. Four examples.
Length 115 & 126 mm.

Chlorophthalmidae Bathysauropsis

Genus Bembradium Gilbert Bembradium Gilbert, Bull. U. J. Fish Comm, vol. 23, pt. 2, p.6373 1905. (Type Bembradium roseum Gilbert, monotypic. Leiffert from Bembras in the Lewer anal rays (11), larger vealet (30) and short mandible included in the upper fav. Lateral line sløper down above anal, axial along side and complete.

Bembradium roseum Gilbert Bembradium roseum Gilbert, Bull. U. S. Fish Comm, vol. 23, pt. 2, p. 637, 1905 (type locality, Pailolo Channel, in 138 fathoms). Jordan and Richardson, Proc. U. S. Lat. hus, vol. 33, J. 642, 1908 (reference). - Fowler, hem. Bishop hus, vol. 10, p. 302, 1928 (copied). Benbradium roseum l.c., pl.62.

Depth 5 \(\frac{3}{4}\); head 2\(\frac{1}{2}\), width \(\frac{1}{5}\).

Nout 3 in head; eye 4, 1\(\frac{2}{5}\) in snout; greatly exceeds very narrow interorbital; maxillary extends 3 in eye, expransion of in eye, lengtht 2 to in head; teeth finely villeform, in narrow bands intraws, on vomer and palatines, tongue small, norrow, pointed and free; interorbital widthy in narrow, deeply cone ave, I in ege. Gill rabbers 2+6, of which 2 upper and 2 below rudiments. length 3 of gill filaments, which 32 in eye. Ridge over front nortrels each side with 15 small identicles. strong antero-orbital spine direkted upward, and supraorbital ridge with 13 rather large terrlae, followed by pair of orcipital springs and

Linally wide set suprase apula spriek, one each ride, strong fortoular spine, with Indel antero-basal spine and 2 small dentieles stell anterior; suborbital stay with finely servated edge; preopercle edge Twith storing spine behind end of sultabletal stay and 4 or 5 upturned servale along edge below; 2 opercular Aprile, upper little longer and lower slightly forward; strong humeral spine concealed under gill flap. Heales 26+2 in lateral line; 3 above, 7 below to anal; 5 predorsal; 5 below suborbital stay on cheeks. Head realy behind and below eyer, and Imall reales on cheft, broaxt and belly, also candal base, very

small on pectoral base. Lateral line complete, of long slender tubes, well exposed for reach ends of scales. Scales with 9 basal Gradiating striae, 50 small close set unisertial apical denticles; Circuli fine, coarser and end abruptly aprically. D. IX, 17, I, thered spring 23 in head; first ray 25, kirth ray 25, 1a. 11, I, third ray 352 fifth ray 3, candal 1/2 little rounded behind; least depth of caudal pedeuncle 6; pertoral 13, rays 25, ventral rays I,5, fin 24 in head.
Brown, more or less. uniform. Drix gray, slate black abbove. Fins all untform. Hawaiian Islands.

El. A. h. M., ho. 51617. Pailolo Channel, in 138 fathoms. Albatross Collection 3859. Length 90 mm. Type.

Gentrada Jordan and Richardson Bembradon Jordan and Richardson, Fran U. V. Lat. hun, od. 33, p. 643, 1908. Type Bembras laevis hyström, orthotypic.

Lynancidium J. müller, Kirch. hatury, p. 302, 1843. Type Lorhaena horrida dinnaeus. Designated by Jordan Genera of Fisker, pt.

2, Apr. 169, 20 1, 1919.

Synancyclium againer, of cit. Type

Teorpaena horriga Emaeur. Kynanceichthys Bleeker, hed. Klids. Dierka, vol. 1, p. 234, 1863. Type Typanceja verrueota Schneider, mortotypie. hame only. , Emmydrichthyd Jordan and Rutter, Proc. Cal. Read Flei, ser. 2, vol. 6, pp. 221, 5621/2, 1896. Jype Emmydrichthys villamis Sordan and Rutter, monodypic. hofua Whitley, hiem. Rucenstand mus, vol. 10, 1/2, 1930. Type. Tyranceja platyrhynohus Bleeker. ortholippie.

Top of head amouth, without ridges or spines. Vaales moderate. Donal spines 6. Conal rays 17 or 15. Deffers from Bembrus thiefly in its short spinous donsal.

Bembradon laevis (hyström) Bembras laevis hyström, Bih. K. Lvensk. Vet. Tak. Handl. Stockholm, vol. 13, afd. 4, ho. 4, p. 26, 1887 (type locality, hagasaki).
Fordan and Inydert, Comot.

3 ool. Japan, vol. 30, f. 105, 1901

(reference). Bembradon laevis Jordan and Richardson, Proc. E. S. Lat. Mus., vol. 33, p. 6,43, 1908 (copred). Jordan, Tanaka, Vnyder, Journ. Eollege Vci., Tokyo, wbl. 33, art.1, f. 2087, 1913 (refference).

Body slender, width behind head, Greater than depth. Inout 3 in head, eye 4, lower faw frotruded. Exper fart of head without spines or ridges. Acales 40 in lateral line, thin, ctenoid. D. II- 14; le. 15; pect. oral 23, second dorsal spine longest, somewhat more than body depth; anal slightly longer than toft don't alt. 1 Brownish, with row of dusky spots along lower edge of body. Eunder parts white. Black blotch at front of springer dorsal. Ainal pale, with dusky basal band. Pectoral Abrownish, without spots on bands. Length 135 mm. (hyström) Japan.

Genus Bembras Cuvier Bembras Cuvier, Hist, Lat. Poist, vol. 4, J. 282, 1829. (Type Bembras japonicus Cuvier, monotypie) Body elongately ovate, takering posterdorly, Isubtylindrical. Head moderate, Hointed. Inout lettle depressed, rather long. Eye large, shorter than subut. Maxillary moderate. Interorbital tharrow. Ridges and spires of head distinct. Yeales small. It ead realy. Lateral line axial, complete. Offmous donsal but little smaller than soft dorsal, with 11 spines and seemd fin with spine and Ilrays. anal rays 14. Candal truncate. Paired fins moderate, few lower pectoral rays simple.

Benbras Jahonicus Cuvier Bembras japonicus Cuvier, Hist. Lat. Poiss, vol. 4, J. 282, pl. 83, 1829 (type locality; Japan). Luvanism, hat Hist, animals, vol. 2, p. 270, 1839 (reference). Schlegel, Farna Japanica, Voist, 1843 (Japan). Richardson, Ichth. China and Japan, 1 217, 1846 (reference). - Winther, Cat. Fish. Brit. mus, vol. 2, 7.191, 1860 (Dapan). - Blacker, Verh. Ron. Akad. Wet. Winsterdam), vol. 18 (ho.6), L.12, 1879 (ref. evence). - Heindachner and Døderlein, Denks. Akad. Wist. Wien, math. naturh. Kl., vol. 53, ft. 1, p. 261, 1887 (Totoyo).

- Jordan and Snyder, annot. Fool. Sapon, vol. 3, p. 105, 1901 (reference). Smith and Pope, Proc. U. F. hat. mus, vol. 31, p. 488, 1906 Ausabi, Evrado, Kochi) Jordan and Richardson, France. Le. S. hat, mus, vol. 33, 7.643, 1908 (compiled). - Franzi Libhandl. Bayer, Abad. Wiss, vol. 10, Suppl. Band 15 p. 78, 1910 Golden-hama; hisalsi - Jordan and Thompson, mem. Carnegie huns, vol. 6, 20.4, p. 280, Aep. 1914 (hagasabi). - Djuka and matriura, Cat. Zool. Apec. Tologo mus, Vertebr., L. 122, 1920 (Morhin). – Fordan and Hubbs, men. Carnegie hurs, vol. 10, 20.2, L. 283, June 27, 1925 (Osabaa). Kochi, huraki.

Depth 6 \frac{3}{4} to 7 \frac{3}{3}; head 7 \frac{3}{5} to 2 - 7 width 2 = 4 2 4 Snout 2 % to 3 in head from knowt ty seye 3 3 to 4 4, 14 to 13in knowt; maxillary reaches 8 to 5 in eye, expansion 2 to 2 3, length 2 f3 to 2 4 in head from snout tip, teeth in villeform bands in jaws, upper band little broader, single small patch of villiform teelth each tide of vomer and long band on each falatine; interorbital width 3 2 to 4 in eye, narrow, deeply concave Gill brakers 3 + 10, lanceolate, also 4 small rudimentary tubercles both above and thelow; gill filaments

3 of gill rabers. I Tho natal sprines, strong and rather long antero-orblital spine above, followed by 5 miles

supraorbetal spines of which 229 last 3 march closer, then parietal pair and finally orcipital pair, 3 preorblital spines, anterior forward and directed forward, forterior 2 close together close before eye and florterior largers. Duborbital stay with 4 spines; preopercular Topines 3, lowest smallest inclined down, upper. most longest or 3 of orbit; ? fortocular spines, 2 suprascapular spines, anterior small, close on posterior and followed by 4 similarly through sealer forming front of lateral line, 2 disterging opercular spines, upper more posterior; subopercle with small spine, strong, skort, humeral spine.

Scales 70 or 7/+ 5 in lateral line; tubular scales 48 + 1 or 3 in lateral line; 6 realer above, 12 below, 11 predorsal forward & orciput, 8 rows below suborbital stay on cheek. Small realer ton chest, breast and belly, also on jectoralma candal bases. muzzle naked, head behind and below eyes scaly. Lateral line rather high, axial along side of body to middle of candal bate and tuber small . Yealer with 5 to 8 basal radiating. striae; 20 to 36 aprial dentiteles. uniserial, with 2 to 5 transverse series of basal elements. circuli fine, end abruftly apically. 17 to 2 in total head length,

first branched ray 2 3 to 3 3 1231 Hi. 14 I, edge oft membranes behind end of each ray? incised, fourth ray 4 to 5. candal 1/3 to 17, truncate. least depth of candal pedemle 6 4 to 6 3. pectoral 13/4 to 15, ray \$ II, 10, I, ventral rays I, 5, fin 1 to 2 in total Read = length. Brown, paler below, evidently whiteih when fresh. Dris palle or dull gragish. Scattered and wiregular dark brown spott on head above and back. Fins all fale or light brownish, dorsals and peetbral marked with contrasted blackersh brown spots. Candal with transverse durk brown subterminal band.

El. S. h. M., ho. 59653. Kochi,

Japan. May 11,1903 Dr. H. M. Smith.

Length 215 mm. Vu. S. n. m., 20.59659. Kochi. may 11, 1903, Dr. H. M. Hmith. Ledgth 90 mm. El. S. h. m., 20. 5-9660, Urado, Japan. may 10, 1903. Dr. H. M. Hmith. Ter. S. h. m., ho. 5-9661. Susaki, Jafan. hray 8, 1903. Dr. H. h. Amith. Kength 114 mm.